

42-318

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/008,947
		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet	1	of	80
		Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	FAX RECEIVED MAR 12 2002 GROUP 100 Official
OK		H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.	
OK		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Chem. Phys. Letts., submitted.	
OK		R. L. Mills, B. Dhandapani, J. He, "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", Int. J. Hydrogen Energy, submitted.	
OK		R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Characterization of Lithium Chloro Hydride", Int. J. Hydrogen Energy, submitted.	
OK		R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.	
OK		R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.	
OK		R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17th Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.	
OK		R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.	

Examiner Signature	<i>El. Kalafut</i>	Date Considered	16/01/02
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*(Publication Papers for
All References Above Are Attached)*

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		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet 2	of 80	Attorney Docket Number	62-228-8A2

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Chs No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages, volume-issue number(s), publisher, city and/or country where published.	FA T2 RECEIVED JULY 12, 2002 GROUP TAB Official
OK		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted	
OK		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted	
OK		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted	
OK		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted	
OK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted	
OK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted	
OK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted	
OK		R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press	

Examiner Signature	<i>SJ Kalafut</i>	Date Considered	10/10/02
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*(Publication) Dates for all References
Above Are UNKNOWN*

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
(use as many sheets as necessary)			
Sheet	3		
of	10		
		Attorney Docket Number	

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OK	R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.	(Note unknown)	T ³
OK	R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.	(Note unknown)	
OK	R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.	(Note unknown)	
OK	R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.	(Note unknown)	
OK	R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.	(Note unknown)	
OK	R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, <i>Hydrogen: The Common Thread</i> , The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.		
OK	Keith Keefer, Ph.D., "Interim Report on Blacklight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation."	(Note unknown)	
OK	R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001). Distributed by Amazon.Com.	(Note N.A.)	

Examiner Signature	<i>SJ Kalafut</i>	Date Considered	10/10/02
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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>		<i>Complete If Known</i>	
		Application Number	09/008,947
		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet 4	of 10	Attorney Docket Number 62-226-8A1	

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

***EXAMINER:** Initial if references considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 15 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 14498/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete If Known	
		Application Number	09/008,947
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		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet 5	of 10	Attorney Docket Number 62-226-8A1	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
SJK		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- α Excitation in Ar-H 2 Radio-Frequency Discharges" J. Appl. Phys. Vol. 78, No. 2, pp. 748-758, July 1995.	
OK		Thorne, et. al., "Recombination during the Electrolysis of Light Water in 0.6 M K ₂ CO ₃ Can It Account for the Reports of Excess Heat?" Departments of Physics and Chemistry, Brigham Young University, June 1993.	
OK		Beiser, A. Concepts of Modern Physics, Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	
JK		Boniface, et. al. "Calorimetry for a Ni/K ₂ CO ₃ Cell." AECL Research, June 1994.	
OK		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
OK		Clark, et. al. "Excess Energy Cell Final Report." April 1995.	
SJK		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 40150, March 1994.	
OK		Evans, et. al. "XPS/ESCA Results." CE & A Number 44545, Nov 1994.	
OK		Gernert, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." Thermacore, Inc. (Note VAN KERKHOVEN)	
OK		Haus. "On the radiation from point charges." American Journal of Physics, Vol 54, No 12, December 1988. Pp. 1126-1129.	
OK		Jansson. "Hydrocatalysis: A New Energy Paradigm for the 21 st Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.	

Examiner Signature	<i>SJK</i>	Date Considered	10/10/02
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		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet 6	of 6	Attorney Docket Number	62-226-8A1

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
SK		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG & G Idaho, Inc., Nov 1993.	T ²
SK		Karapius and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567. (MATH UNKNOWN)	
SK		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	
SK		Kurtz, et. al. "Report on Calorimetric Investigations of Gas-Phase Catalyzed Hydrogen Formation." Hydrocatalysis Power Corp. Report, December 1996.	
SK		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, Westinghouse STC, Feb 1994.	
SK		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixtures of K/Carbon and PD/Carbon." Consulting Report, Jan 1996.	
SK		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.	
SK		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
SK		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	

Examiner Signature	<i>SK Kalafut</i>	Date Considered	<i>10/10/02</i>
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Institute for form 1449B/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **1** of **10** Attorney Docket Number **62-226-8A1**

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SK		R. Mills, J. Sankar, P. Ray, B. Dhandapani, J. He, "Spectroscopic Characterization of the Atomic Hydrogen Energies and Densities and Carbon Species During Helium-Hydrogen-Methane Plasma CVD Synthesis of Single Crystal Diamond Films", Chemistry of Materials, submitted. (Pub. Date Unknown)	
SK		R. Mills, P. Ray, R. M. Mayo, "Stationary Inverted Balmer and Lyman Populations for a CW HI Water-Plasma Laser", IEEE Transactions on Plasma Science, submitted. (Pub. Date Unknown)	
OK		R. L. Mills, P. Ray, B. Dhandapani, J. He, "New Energy States of Atomic Hydrogen Formed in a Catalytic Helium-Hydrogen Plasma", IEEE Transactions on Plasma Science, submitted. (Pub. Date Unknown)	
SK		R. Mills, P. Ray, R. Mayo, "Water-Plasma Medium for a Hydrogen Laser", J of Phys. Chem. Lett., submitted. (Pub. Date Unknown)	
OK		R. Mills, P. Ray, R. Mayo, "The Potential for an Extremely Versatile Hydrogen Water-Plasma Laser", Phys. Rev. E, submitted. (Pub. Date Unknown)	
OK		R. L. Mills, B. Dhandapani, J. He, J. Sankar, "CVD Synthesis of Single Crystal Diamond Films on Silicon Substrates Without Seeding", Diamond and Related Materials, submitted. (Pub. Date Unknown)	
OK		R. L. Mills, X. Chen, P. Ray, J. He, B. Dhandapani, "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry", Thermochimica Acta, submitted. (Pub. Date Unknown)	
OK		R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Spectroscopic Identification of Lithium Chloro Hydride", Materials Characterization, submitted. (Pub. Date Unknown)	
SDT		R. L. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride", J of Materials Research, submitted. (Pub. Date Unknown)	

Examiner Signature	<i>SDT</i>	Date Considered	<i>10/10/02</i>
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet **9** of **10** Attorney Docket Number **62-226-8A1**

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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OK		R. L. Mills, B. Dhandapani, J. He, J. Sankar, "Synthesis of Diamond Films from Solid Carbon", Diamond and Related Materials, submitted. (Pub. Date Unknown)	1
OK	6	R. Mills, P. Ray, R. M. Mayo, "The Potential for a Hydrogen Water-Plasma Laser", Applied Physics Letters, submitted. (Pub. Date Unknown)	
OK	8	R. L. Mills, "Classical Quantum Mechanics", Physica Scripta, submitted. (Pub. Date Unknown)	
OK	11	R. L. Mills, P. Ray, "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," Quantitative Spectroscopy and Radiative Transfer, submitted. (Pub. Date Unknown)	
OK	12	R. Mayo, R. Mills, "Direct Plasmodynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications", 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), in press. (Pub. Date Unknown)	
OK	13	R. Mills, P. Ray, R. Mayo, "Chemically-Generated Stationary Inverted Lyman Population for a CW HI Laser", J Vac. Sci. and Tech. A, submitted. (Pub. Date Unknown)	
OK	14	R. L. Mills, P. Ray, B. Dhandapani, J. Dong, S. Hicks, M. Nansteel, X. Chen, J. He, R. Mayo, "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen, Fuels and Energy, submitted. (Pub. Date Unknown)	
OK	15	R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", J. Phys. Chem. Lett., submitted. (Pub. Date Unknown)	
OK	16	R. Mills, "A Maxwellian Approach to Quantum Mechanics Explains the Nature of Free Electrons in Superfluid Helium", Foundations of Science, submitted. (Pub. Date Unknown)	

Examiner Signature SJ Kell Date Considered 10/10/02

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PTO 65

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete If Known	
			Application Number	09/008/947
			Filing Date	January 20, 1998
			First Named Inventor	Mills
			Group Art Unit	1745
Examiner Name	Kalafut			
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SK		R. Mills and M. Nansteel, P. Ray, "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions", New Journal of Physics, submitted. (Pub. Date Unknown)		
SK		R. Mills, P. Ray, R. Mayo, "CW HI Laser Based on a Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Group I Catalysts", IEEE Transactions on Plasma Science, submitted. (Pub. Date Unknown)		
SK		R. L. Mills, P. Ray, J. Dong, M. Nansteel, B. Dhandapani, J. He, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Molecular Hydrogen", Vibrational Spectroscopy, submitted. (Pub. Date Unknown)		
SK		R. L. Mills, P. Ray, E. Dayalan, B. Dhandapani, J. He, "Comparison of Excessive Balmer α Line Broadening of Inductively and Capacitively Coupled RF, Microwave, and Glow Discharge Hydrogen Plasmas with Certain Catalysts", IEEE Transactions on Plasma Science, submitted. (Pub. Date Unknown)		
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SK		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population and a Very Stable Novel Hydride Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Catalysts", International Journal of Engineering Science, submitted. (Pub. Date Unknown)		

Examiner Signature	<i>ST Kalafut</i>	Date Considered	10/10/02
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P E A. 1.5.2002 U. S. PATENT & TRADEMARK OFFICE					
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Sheet	10	of	10		
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Y <i>OK</i>		Barton, et al. "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces." <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430.	
F <i>OK</i>		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some qualitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.	
F <i>OK</i>		Dery, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.	
F <i>OK</i>		Roberts, et al. "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge." <i>J. Appl. Phys.</i> , Vol 74, No 11, December 1993.	
F <i>OK</i>		Videnovic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 51, 1996, pp. 1707-1731. <i>APR 17 2002</i>	
		<i>RECEIVED</i>	
		<i>TC 1700</i>	

Examiner Signature	<i>OK</i>	Date Considered	<i>10/10/02</i>
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